RAW SEQUENCE LISTING PATENT APPLICATION US/08/822,186

DATE: 06/16/97 TIME: 18:18:32

INPUT SET: S18376.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING ENTERED
2		
3	(1) Ge	eneral Information:
4 5 6	(i)	APPLICANT: RUEGER, David C. TUCKER, Marjorie M.
7 8 9 10	(ii)	TITLE OF INVENTION: IMPROVED OSTEOGENIC DEVICES AND METHODS OF USE THEREOF FOR REPAIR OF ENDOCHONDRAL BONE AND OSTEOCHONDRAL DEFECTS
11 12 13	(iii)	NUMBER OF SEQUENCES: 9
14 15 16 17	(iv)	CORRESPONDENCE ADDRESS: (A) ADDRESSEE: CREATIVE BIOMOLECULES, INC (B) STREET: 45 SOUTH STREET (C) CITY: HOPKINTON
18 19 20		(D) STATE: MA (E) COUNTRY: USA (F) ZIP: 01748
21 22 23	(v)	COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk
24 25 26 27		(A) MEDIUM TIPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: Patentin Release #1.0, Version #1.30
28 29 30 31	(vi)	CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: (B) FILING DATE: (C) CLASSIFICATION:
32 33 34 35 36 37	(viii)	ATTORNEY/AGENT INFORMATION: (A) NAME: VITO, CHRISTINE C (B) REGISTRATION NUMBER: 39,061 (C) REFERENCE/DOCKET NUMBER: CRP-137
38 39 40 41 42	(ix)	TELECOMMUNICATION INFORMATION: (A) TELEPHONE: (617) 248-7000 (B) TELEFAX: (617) 248-7100
43	(2) INFOR	RMATION FOR SEQ ID NO:1:
45 46	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 1822 base pairs

RAW SEQUENCE LISTING PATENT APPLICATION US/08/822,186

DATE: 06/16/97 TIME: 18:18:34

INPUT SET: S18376.raw

					INPUT	'SET: S18376.raw									
47		(B) 7	YPE: nuc	leic aci	.d										
48		(C) S	TRANDEDN	ESS: sir	igle										
49		(D) T	OPOLOGY:	linear											
50															
51	(ii) MOLECU	LE TYPE:	CDNA											
52	•	•		•											
53	(vi	ORTGIN	IAL SOURC												
54	,	•	RGANISM:												
55			ISSUE TY												
		(-) -	15506 11												
56			· .												
57	(1X) FEATUR		ana											
58			IAME/KEY:												
59			OCATION:												
60			DENTIFIC												
61		(D) (THER INF	"OSTEO	SENIC PRO	TEIN"									
62	/prod	uct= "OI													
63															
64															
65	-														
66															
67															
68	· · · =														
69															
70								Met Hi							
71								1	5 141						
72								-							
	aaa maa	ama aa1					ama aa		003 105						
73								CTC TGG							
74	_	-	ј ита ита		HIS Sei	Pne		Leu Trp	Ala						
75	5			10			15								
76															
77								CTG GAC							
78	Pro Leu	Phe Leu	ı Leu Arg	Ser Ala	Leu Ala	a Asp	Phe Sei	: Leu Asp	Asn						
79	20		25			30			35						
80															
81	GAG GTG	CAC TCC	AGC TTC	ATC CAC	CGG CGC	CTC	CGC AGC	CAG GAG	CGG 201						
82	Glu Val	His Ser	Ser Phe	Ile His	Arg Arg	Leu	Arg Ser	Gln Glu	Arg						
83	•		40		4.5	5		50							
84															
85	CGG GAG	ATG CAC	CGC GAG	ATC CTC	TCC ATT	TTG	GGC TTC	CCC CAC	CGC 249						
86								Pro His							
87	5	55	_		60		,	65	5						
88								-							
89	aca aca	CCC CAC	י משמ מאמ	CCC AAC	CAC AAC	n mag	CCA CCC	ATG TTC	ATG 297						
90															
	FIO AIG		Ped GIU			, ser		Met Phe	MC L						
91		70		75			80	,							
92	ama a	484 E.					~~~								
93								GGG CCC							
94	-	-	Asn Ala		val Glu	ı Giu		Gly Pro	gtÅ						
956	85			90			95								
96															
97	GGC CAG	GGC TTC	TCC TAC	CCC TAC	AAG GCC	GTC	TTC AGT	ACC CAG	GGC 393						
98	Gly Gln	Gly Phe	e Ser Tyr	Pro Tyr	Lys Ala	val	Phe Ser	Thr Gln	Gly						
99	100		105	_		110			115						

RAW SEQUENCE LISTING PATENT APPLICATION US/08/822,186

DATE: 06/16/97 TIME: 18:18:37

INPUT SET: S18376.raw

														11.	12 0 1	DLI. DI	05/0./4//
100		aam	ama	000	3.00	аша	G33	a a m	100	a a m	mma	ama.	3.00	asa	aaa	CA C	441
101	-					CTG											441
102	Pro	Pro	Leu	АТА		Leu	GIN	Asp	ser		Pne	rea	THE	ASP		Asp	
103					120					125					130		
104																	
105						GTC											489
106	Met	Val	Met		Phe	Val	Asn	Leu		Glu	His	Asp	Lys		Phe	Phe	
107				135					140					145			
108																	
109						CAT											537
110	His	Pro	Arg	Tyr	His	His	Arg	Glu	Phe	Arg	Phe	Asp	Leu	Ser	Lys	Ile	
111			150					155					160				
112		,															
113	CCA	GAA	GGG	GAA	GCT	GTC	ACG	GCA	GCC	GAA	TTC	CGG	ATC	TAC	AAG	GAC	585
114	Pro	Glu	Gly	Glu	Ala	Val	Thr	Ala	Ala	Glu	Phe	Arg	Ile	Tyr	Lys	Asp	
115		165	_				170					175		_	_	_	
116																	
117	TAC	ATC	CGG	GAA	CGC	TTC	GAC	AAT	GAG	ACG	TTC	CGG	ATC	AGC	GTT	TAT	633
118						Phe											
119	180		3			185	_				190					195	
120																	
121	CAG	GTG	СТС	CAG	GAG	CAC	TTG	GGC	AGG	GAA	TCG	GAT	CTC	TTC	CTG	CTC	681
122					_	His				_							
123	U				200			0_1	9	205					210		
124					200					200					210		
125	GAC	NGC.	COT	אככ	CTC	TGG	CCC	TCG	GAG	GAG	aac	TCC	СТС	GTG.	արդու	GAC	729
126						Trp											123
127	АБР	Set	AIG	215	ьец	пр	АТа	Ser	220	GIU	GLY	пр	ьеа	225	FIIE	АЗР	
128				215					220					223			
129	a ma	202	aaa	3.00	3.00	AAC	asa	maa	ama	ama	2.20	aaa	000	CAC		ama.	777
																	,,,
130	тте	THE		1111	ser	Asn	urs	-	Val	Val	ASII	PIU		uis	ASII	red	
131			230					235					240				
132	999	ama	~~~	ama	maa	ama	~~~	100	аша	a	000	a.a	100	.		aaa	005
133						GTG											825
134	GIY		GIN	Leu	ser	Val		Thr	Leu	ASP	GTA		ser	тте	ASN	PLO	
135		245					250					255					
136																	
137						ATT											873
138	-	Leu	Ala	GTÀ	Leu	Ile	GTÀ	Arg	His	GTÀ		GIn	Asn	Lys	GIn		
139	260					265		•			270					275	
140																	
141						TTC											921
142	Phe	Met	Val	Ala	Phe	Phe	Lys	Ala	Thr	Glu	Val	His	Phe	Arg	Ser	Ile	
143					280					285					290		
144																	
145		_			-	AAA						_					969
146	Arg	Ser	Thr	Gly	Ser	Lys	G]#n	Arg	Ser	Gln	Asn	Arg	Ser	Lys	Thr	Pro	
147				295					300					305			
148						4											
149	AAG	AAC	CAG	GAA	GCC	CTG	CGG	ATG	GCC	AAC	GTG	GCA	GAG	AAC	AGC	AGC	1017
150	Lys	Asn	Gln	Glu	Ala	Leu	Arg	Met	Ala	Asn	Val	Ala	Glu	Asn	Ser	Ser	
151			310			-	-	315					320				
152																	

204 205

(ii) MOLECULE TYPE: protein

RAW SEQUENCE LISTING PATENT APPLICATION US/08/822,186

DATE: 06/16/97 TIME: 18:18:39

															· 11	VPUT	SET:	S18376.raw
	153	AGC	GAC	CAG	AGG	CAG	GCC	TGT	AAG	AAG	CAC	GAG	CTG	TAT	CTC	ACC	ጥጥረ	1065
	154	Ser	Asp	GIn	Arg	Gln	Ala	Cys	Lys	Lys	His	Glu	Leu	Tyr	Val	Ser	Phe	1005
	155		325					330					335					
	156																	
	157	CGA	GAC	CTG	GGC	TGG	CAG	GAC	TGG	ATC	ATC	GCG	CCT	GAA	GGC	TAC	GCC	1113
	158	Arg	ASP	Leu	Gly	Trp	Gln	Asp	Trp	Ile	Ile	Ala	Pro	Glu	Glv	Tvr	Ala	
	159	340					345					350			-	- 2	355	
	160								•								-	
	161	GCC	TAC	TAC	TGT	GAG	GGG	GAG	TGT	GCC	TTC	CCT	CTG	AAC	TCC	TAC	ATG	1161
	162	Ala	Tyr	Tyr	Cys	GLu	Gly	Glu	Cys	Ala	Phe	Pro	Leu	Asn	Ser	Tvr	Met	1101
	163					360					365					370		
	164																	
	165	AAC	GCC	ACC	AAC	CAC	GCC	ATC	GTG	CAG	ACG	CTG	GTC	CAC	TTC	ATC	AAC	1209
	166	Asn	Ala	Thr	Asn	His	Ala	Ile	Val	Gln	Thr	Leu	Val	His	Phe	Ile	Asn	
	167				375					380					385			
	168																	
	169	CCG	GAA	ACG	GTG	CCC	AAG	CCC	TGC	TGT	GCG	CCC	ACG	CAG	CTC	AAT	GCC	1257
	L70	Pro	Glu	Thr	Val	Pro	Lys	Pro	Cys	Cys	Ala	Pro	Thr	Gln	Leu	Asn	Ala	2207
	171 .			390					395					400				
	172																	
	73	ATC	TCC	GTC	CTC	TAC	TTC	GAT	GAC	AGC	TCC	AAC	GTC	ATC	CTG	AAG	AAA	1305
	.74 - .75	TTE	Ser	Val	Leu	Tyr	Phe	Asp	Asp	Ser	Ser	Asn	Val	Ile	Leu	Lys	Lys	
			405					410					415			-	•	
	.76 .77	m. a																
	.78	TAC	AGA	AAC	ATG	GTG	GTC	CGG	GCC	TGT	GGC	TGC	CAC	TAGC	TCCT	CC		1351
	.79	420	Arg	Asn .	мет	Val	Val .	Arg	Ala	Cys	Gly	Cys	His					
	80	420					425					430						
	81	CACA) mma		~~~													
	82	GAGA	ATTC	AG A	CCCT	TTGG	G GC	CAAG	TTTT	TCT	GGAT	CCT	CCAT	TGCT	CG C	CTTG	GCCA	G 1411
_	83	GAAC	יראפר	3.CL 3.	CC 3 3	ашаа	a	~~~										
	84	GAAC	CAGC	AG A	CCAA	CTGC	C TT	I'TGT	GAGA	CCT	TCCC	CTC	CCTA	TCCC	CA A	CTTT.	AAAG	G 1471
	85	тата	A C A C	יות גידי	TIA CIC	2224	.											
	86	1010	AGAG	IM I	I AGG	HAAC.	A TG	AGCA	GCAT	ATG	GCTT"	TTG .	ATCA	GTTT'	TT C	AGTG	GCAG	C 1531
	87	ATCC	λ λ Τ С	ΔΔ C	אמאא	ሞረረሞ	A (12)	. аат	amaa			.						
	88		AATG.	nn C	MOM	1001	H CA	AGCT	GTGC	AGG	CAAA	ACC '	TAGC	AGGA.	AA AA	AAAA	ACAA(1591
	89	GCAT	AAAG	ΔΔ ΔΔ	ል ልጥር /	acca	2 000	יאממו	T/ 3 III	maa.	ama a				_			
	90			141 111		GCCG	3 600	AGG	ICAT	TGG	CTGG	JAA (GTCT	CAGC	CA TO	CAC	GGAC	r 1651
1	91	CGTT	TCCA	GA GO	יבבדנ	ም	a Acc	ימממי	מסמים	3.00	73.00	703		~~~				
1	92						, AG		ACC	AGC	JAGG	JCA (CCCA	GCCG.	I'G GC	BAGG	AAGGG	3 1711
1	93	GGCG	TGGC	AA GO	GGT	gggc	י מיט	የሞረረባ	יכייר	ጥረነጥረ	7003		7222					_
1	94						. 0111	. 100	1010	1010	CGA	AAG (JAAA	ATTG	AC CC	GGA	AGTTC	1771
1	95	CTGT.	AATA	AA TO	TCAC	CAAT	ΑΔΖ	CGA	ልሞር ል	ΔΨα:	יגגגו	י גגו						
15	96							.00,12	02	AIG	www	MA A	AAAA	AAAA	AA A			1822
19	97																	
19	98	(2)	INFO	RMATI	ON E	OR S	EO I	ם אר):2:									
19	99																	
20	00		(i) SE	QUEN	ICE C	HARA	CTER	RISTI	CS:								
20	1					LENG					ids							
	2				(B)	TYPE	: am	ino	acid									
20					(D)	TOPO	LOGY	: li	near									
20	4																	

RAW SEQUENCE LISTING PATENT APPLICATION US/08/822,186

DATE: 06/16/97 TIME: 18:18:41

206									*						INP	UT SET	: S1837	h raw
207			(xi) SEÇ	HENC	ים אי	CODT	т	NT. 6	700							. 52007	0.747
208																		
209	Me	t H	is Va	al Ar	g Se	r Le	u Ar	q Al	a Al	a A	la P	ro H	ie e	0 m D	ha 11	al Ala		
210		1				5				1	10	. О П	12 2	er P		ат Ата 15	3	
211		_																
212 213	Le	u Tr	p Al	.a Pr	o Le	u Ph	e Le	u Le	u Ar	g Se	er Al	la L	eu A	la A	sp Pl	ne Ser	-	
213				2	0				2	5	-				30	re per	•	
215	T.o	11 Ac	n a	n a1.		n	_											
216	n.c	u As	ip wa	n G1 5	u va	т нт	s Se	r Se	r Ph	e Il	е Ні	s A	rg A	rg Le	eu Ar	g Ser		
217				,				4	0					45		_		
218	Gli	n Gl	u Ar	a Ar	a Gli	u Me	+ G1:	0 Ar	~ 01		- - -					y Leu		
219		5	0	<i>y</i>	9 01	4 140	5!	i AL	g GI	u II	е Ге	u Se	er I	Le Le	eu Gl	y Leu	,	
220													50					
221	Pro	Hi.	s Ar	g Pro	Ar ₉	g Pro	His	s Lei	u Gl	n G1	v T.v	e Hi	- A	n Co		a Pro		
222	65	5				7()				y - y 7	5	.s As	on Se	I AL			
223	10-4	_,									-	_				80		
22 <u>4</u> 225	мет	: Ph	e Me	t Lei	ı Ası	Lei	л Туг	Ası	n Ala	а Ме	t Al	a Va	1 G]	u Gl	u G1	y Gly		
226					85	5				9	0					5		
227	G1 v	Dr.	^ @1 ₁	, 41.				_										
228	<u></u>		J G1	7 GIŞ 100	GTL	1 GTZ	Phe	Sei	Ту	r Pr	о Ту	r Ly	s Al	a Va	l Ph	e Ser		
229									105	•				11				
230	Thr	Glı	ı Gly	7 Pro	Pro	Len	ב [גו	Sor	. ган							u Thr		
231			115	5			, Ala	120	пес	I GII	n As	o Se	r Hi	s Ph	e Le	u Thr		
232											-		12					
233	Asp	Ala	Asp	Met	V al	Met	Ser	Phe	Val	Asr	1 T.e.1	1 172	1 61) Lys		
234		130)				135					14	ע פד	u nı;	s Asj	р Lys		
235	~ 3	_,											-					
236 237	GIU	Phe	Phe	His	Pro	Arg	Tyr	His	His	Arg	, Gli	ı Phe	e Ar	g Phe	a Asr	Leu		
237	145					150					155	i				160		
239	Ser	T.vs	Tla	Dro	a1	a 1												
240			116	FIO	165	GTÅ	GIU	A⊥a	Val	Thr	Ala	Ala	a Glı	ı Phe	Arg	Ile		
241					103					170					175			
242	Tyr	Lys	Asp	Tyr	Ile	Ara	Glu	Δra	Pho	λαν	3	a 3.				Ile		
243			-	180		9	014	arg	185	ASP	ASN	GIU	ı Thi			Ile		
244									_					190				
245	Ser	Val	Tyr	Gln	Val	Leu	Gln	Glu	His	Leu	Glv	Arc	r Glu	Sor	Acn	Leu		
246 247			195					200			1	5	205	. Del	нър	red		
247	Dho	T 0	.		_													
249	FIIE	210	Leu	Asp	Ser	Arg	Thr	Leu	Trp	Ala	Ser	Glu	Glu	Gly	Trp	Leu		
250		210					215					220		-	•			
251	Val	Phe	Asn	Tl_	Thr	A 7 a	ml	~										
252	225			Ile	1111	230	THE	ser	Asn	His	Trp	Val	Val	Asn	Pro	Arg		
253			٠								235					240		•
254	His	Asn	Leu	Gly	Leu	Gln	Leu	Ser	Val	al	ጥሎ ~	T 0	3	a -				
				-	245			-01	, u.	250	1111	геп	Asp	GTÀ		Ser	45	
256		_													255			
257 258	TIE .	Asn	Pro	Lys 260	Leu	Ala	Gly :	Leu	Ile	Gly	Arq	His	Glv	Pro	Gln	Acn	•	
450				260					265	-	,	3	1	270	-211	WOII		
														-				

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/822,186

DATE: 06/16/97 TIME: 18:18:43

INPUT SET: S18376.raw

Line

Error

Original Text